

MEC



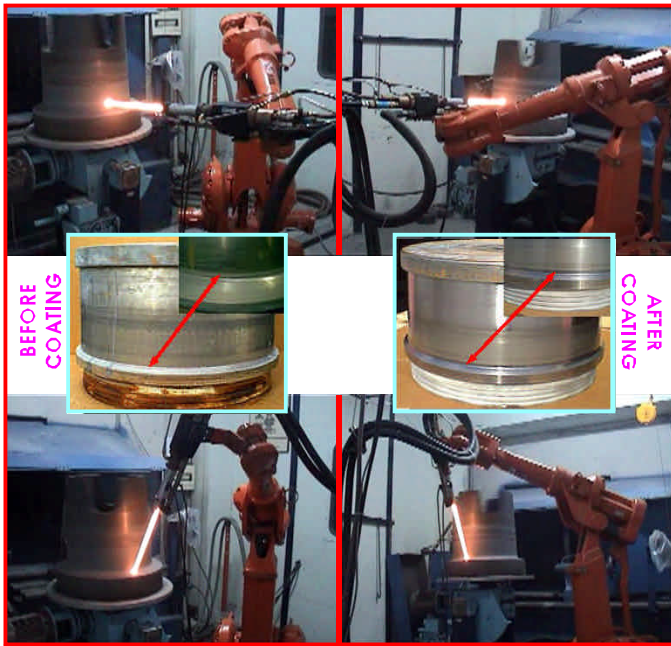
THERMAL SPRAY FACILITIES

COATING SYSTEMS FOR HVOF, PLASMA, FLAME SPRAY, ARC SPRAY & ROD SPRAY

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AUTOMATIC THERMAL SPRAY SYSTEM FOR REBUILDING or MANUFACTURING OF WIRE DRAWING BLOCKS or CAPSTANS

This automatic system specially aims to give consistent thermal spray coating on any type of predefined work object or job. It is useful especially in those areas where the output quantity is high and a uniform quality has to be maintained throughout. Since this system controls the various spray parameters e.g. Spray time, rotation RPM, gas flows & many other safety interlocks, hence with the use of least manpower, quality coating can be achieved.



MEC is specialized in developing customized Automatic Thermal Spray System, which are targeted to fulfill the customer's specific requirements.

Every thermal spray coating has a range of properties e.g. Hardness, bond strength, roughness, coating thickness, porosity etc. which can be manipulated to suit the customer requirement.

Tungsten Carbide based materials, nickel, chrome & boron alloys are deposited by HVOF Thermal Spray System. Ceramic coating can also be applied for high speed and high slip, ferrous wire drawing applications.

Wire drawing sheaves or pulleys made of aluminium, cast iron or steel can also be hard faced with ceramic or tungsten carbide for ferrous & non-ferrous wire drawing. **Surface finish is adjusted to customer's requirement (4.5 to 5.5 microns Ra value or finer possible) and Hardness upto 1200 VHN is possible.**

Using the inputs given by the user of this system, we have developed the system with following features.

- ✎ Automatic spray operation controlled by PLC
- ✎ Safety interlocks with all the incoming gases.
- ✎ Manual operation mode is helpful feature to verify each action of the machine. This is useful specially when the machine is used after a long break.
- ✎ The PLC displays the status i.e. it indicates any fault if present, as well as guides the operator step by step to operate the panel.
- ✎ The user can feed different spray time for different kind of jobs.
- ✎ The PLC programme is password protected for programme safety. A special backup programme is also provided in a memory module so that it can be used in emergency and the production held up is avoided.
- ✎ Voltage monitoring relay protects the control circuit from high/low voltage as well as from phase return and phase reversal.
- ✎ A special purge function cleans all the gases from the spray gun and from the panel to avoid any accidents.

Many other features other than stated above are incorporated in the system to ensure a trouble free operation for long periods of time.

TRIAL JOBS CAN BE DONE AT OUR FACTORY ON CHARGEABLE BASIS.



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